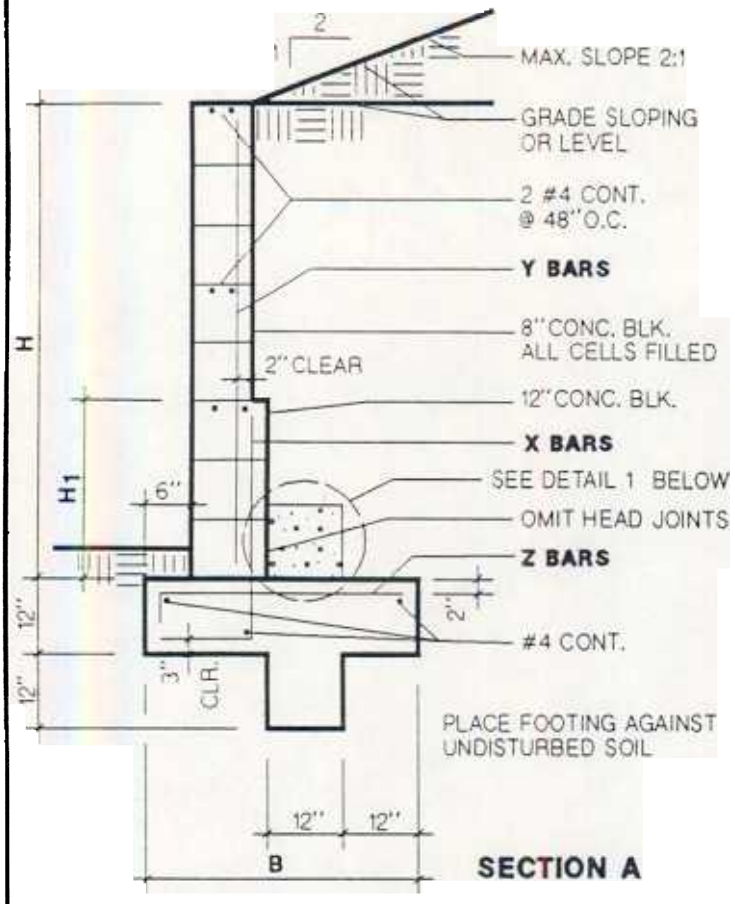
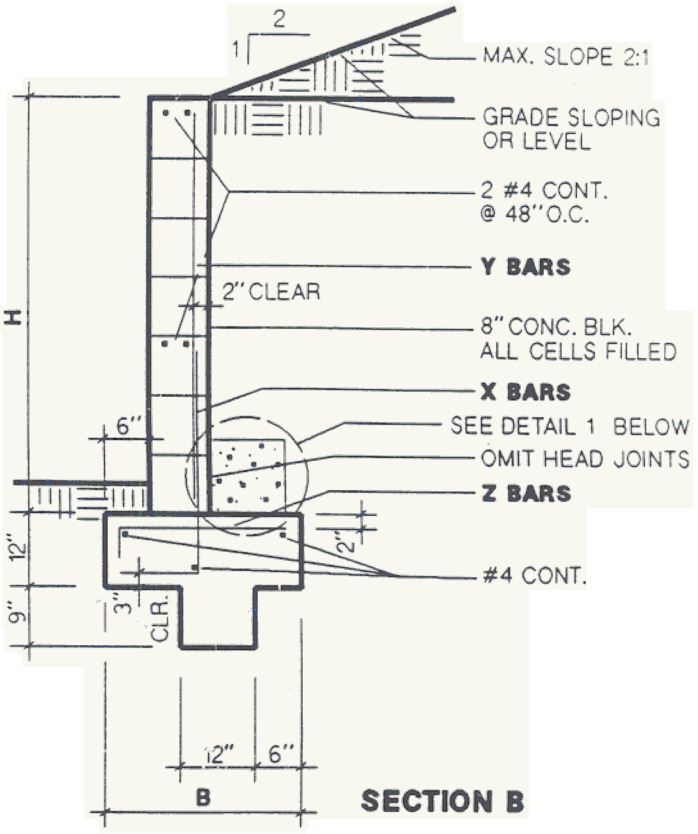
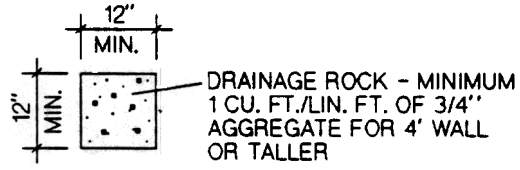
RETAINING WALLS







DETAIL 1 DRAINAGE ROCK

DESIGN DETAILS AND STEEL REQUIREMENTS

	SECT.	H	H_1	B	X BARS	Y BARS	Z BARS
Grade sloping maximum 2:1 behind wall Equivalent Fluid Pressure = 43 psf/ft.							
	B	4' 8"	—	3' 0"	#4 @ 24"	*#4 @ 32"	#4 @ 24"
	B	4' 0"	—	2' 8"	#4 @ 32"	*#4 @ 32"	#4 @ 32"
	B	3' 4"	—	2' 3"	#4 @ 32"	*#4 @ 32"	#4 @ 32"
Grade level behind wall Equivalent Fluid Pressure = 30 psf/ft.							
	A	6' 0"	2' 0"	3' 5"	#4 @ 24"	#4 @ 32"	#4 @ 18"
	B	5' 4"	—	3' 0"	#4 @ 24"	*#4 @ 32"	#4 @ 24"
	B	4' 8"	—	2' 8"	#4 @ 32"	*#4 @ 32"	#4 @ 32"
	B	4' 0"	—	2' 2"	#4 @ 32"	*#4 @ 32"	#4 @ 32"
	B	3' 4"	—	1' 10"	#4 @ 32"	*#4 @ 32"	#4 @ 32"

NOTES:

1. Concrete in footing to test 2000 lbs. per sq. in. at 28 days.
2. Concrete block: Grade 'N' units ASTM C-90. Grout: 1 part cement, 3 parts sand, 2 parts pea gravel. Mortar: 1 part cement, 1/2 part lime putty, 4-1/2 parts sand.
3. MAXIMUM STRESSES: fs = 20,000 psi; fm = 250 psi; Shear V = 15 psi; Bond U = 100 psi; Passive pressure = 300 psf. Coefficient of friction = 0.35.
4. 3" clearance required between rebar and earth.
5. Lap splice may be omitted and reinforcing made one piece from footing to top of wall.

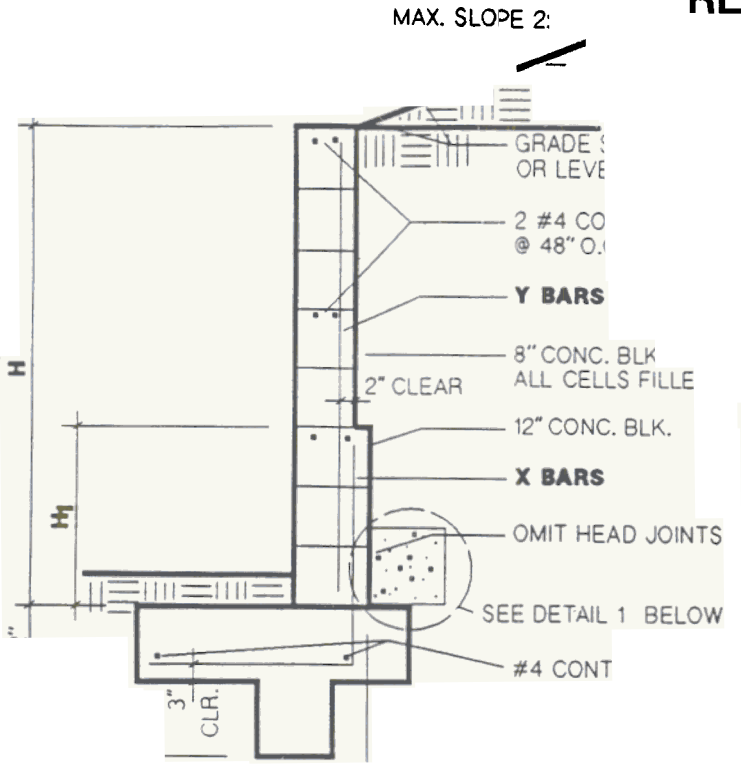
RETAINING WALL – 6" TOE

CITY OF RIVERSIDE
BUILDING DIVISION

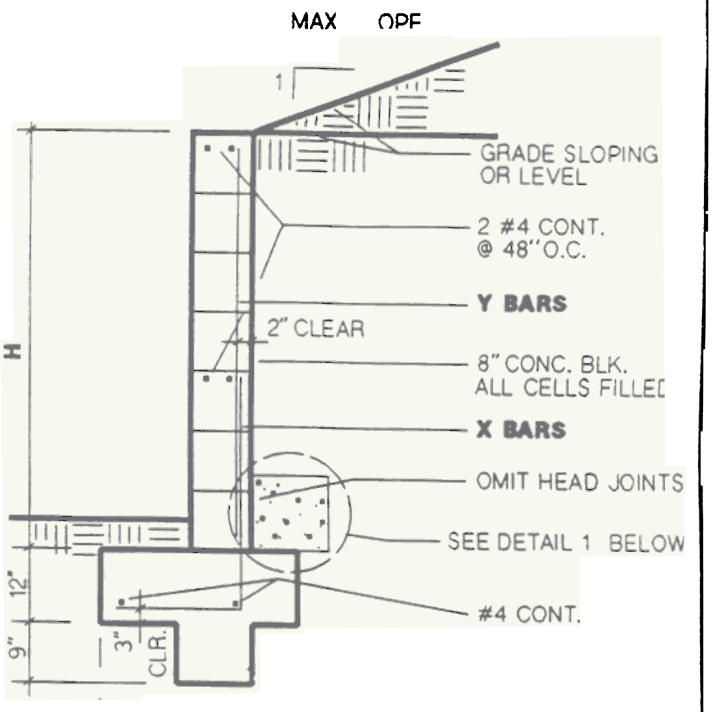
STANDARD DETAIL

REV 3/11/96

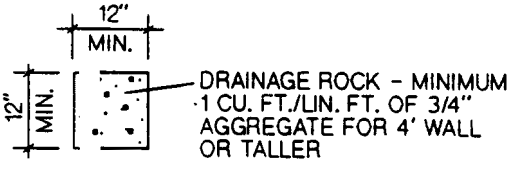
RETAINING WALLS



SECTION A



SECTION B



DETAIL 1 – DRAINAGE ROCK

DESIGN DETAILS

AND

STEEL REQUIREMENTS

	SECT.	H	H_1	B	X BARS	Y BARS
Grade sloping maximum 2:1 behind wall Equivalent Fluid Pressure = 43 psf/ft.						
	A	5' 4"	2' 0"	3' 6"	#4 @ 24"	#4 @ 32"
	B	4' 8"	—	3' 0"	#4 @ 24"	*#4 @ 32"
	B	4' 0"	—	2' 8"	#4 @ 32"	*#4 @ 32"
	B	3' 4"	—	2' 2"	#4 @ 32"	*#4 @ 32"
Grade level behind wall Equivalent Fluid Pressure = 30 psf/ft.						
	A	6' 0"	2' 0"	3' 3"	#4 @ 24"	#4 @ 32"
	B	5' 4"	—	3' 0"	#4 @ 24"	*#4 @ 32"
	B	4' 8"	—	2' 8"	#4 @ 32"	*#4 @ 32"
	B	4' 0"	—	2' 4"	#4 @ 32"	*#4 @ 32"
	B	3' 4"	—	2' 0"	#4 @ 32"	*#4 @ 32"

NOTES:

1. Concrete in footing to test 2000 lbs. per sq. in. at 28 days.
2. Concrete block: Grade 'N' units ASTM C-90. Grout: 1 part cement, 3 parts sand, 2 parts pea gravel. Mortar: 1 part cement, 1/2 part lime putty, 4-1/2 parts sand.
3. MAXIMUM STRESSES: fs = 20,000 psi; fm = 250 psi; Shear V = 15 psi; Bond U = 100 psi; Passive pressure = 300 psf. Coefficient of friction = 0.35.
4. 3" clearance required between rebar and earth.
5. Lap splice may be omitted and reinforcing made one piece from footing to top of wall.

RETAINING WALL – 6" HEEL

CITY OF RIVERSIDE
BUILDING DIVISION
STANDARD DETAIL

REV 3/11/96